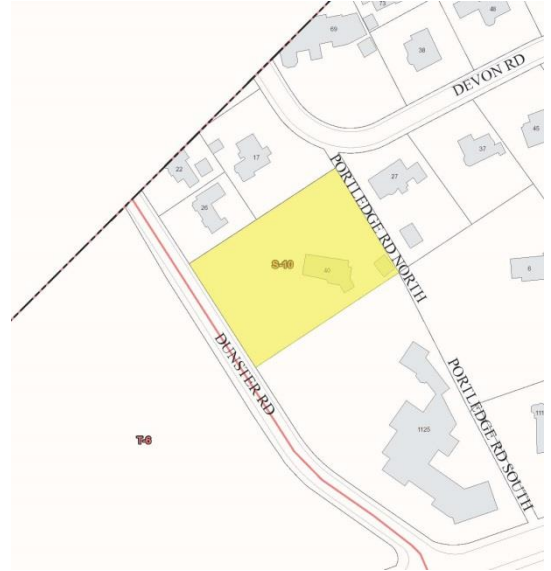


Brookline Preservation Commission

Local Historic District Report

Address: 40 Dunster Road
District: Chestnut Hill North LHD
Applicant: Michael and Casey Buckley
Date Built: 1886
Architect: Unknown
Builder: Unknown



Statement of Significance:

40 Dunster Road is one of nine houses built in Chestnut Hill in the late 1880's, and with 52 Norfolk Road, is one of the two earliest houses. Now painted white, this house has many Shingle Style elements, including clipped gables with shingle banding, pent roofs and tall chimneys, the solid, curved shingled railing on the porch, and the steep-pitched gambrel-like overhang at the second story. Its size and some of its features are reminiscent of #6 Alwynton Road nearby, another early house. A two story addition was constructed in 1896, and another two story addition (living room) with a gable roof was constructed in 1940.

Charles K. Cobb, the original owner, became a Brookline resident in 1888, was a partner in Brooks & Nichols, a law firm at 40 Water Street in Boston.

The current owners of the property received approvals from the Brookline Preservation Commission and Zoning Board of Appeals to demolish an existing 1941 detached garage, and construct a new two car garage and one story connector; in addition, the owners received approvals for alterations and restoration work to the existing house as well as outdoor landscape features. This work is currently under construction.

Proposed Alterations:

The applicant is proposing to install exterior lighting throughout the property. The proposal includes:

- (23) Vision 3 rear mount MR16 flood lights with a stake mount located mostly within the vegetation lining the driveway, as well as the front entrance, the exterior pathway to the rear patio, and the large tree located close to Dunster Road. (A/yellow on the plan)
- (6) 31.5" Hunza twig lites located in front of the main entrance, as well as the sides of the rear patio. (B/green on the plan)
- (8) 17" Auroralight path lights located mostly along the rear patio, as well as by the rear connector entrance and the right side gate. (C/orange on the plan)
- (4) Hunza euro step lites located within the steps leading to the rear patio. (D/blue on the plan)
- (2) Hunza spike spot lights located on either side of the entrance to the driveway. (E/purple on the plan)

Applicable Guidelines:

At this time the Design Guidelines do not specifically mention exterior lighting. The Commission has in previous local historic district applications asked that applicants take a minimal approach and that lighting be proposed for functional and safety purposes such as by entrances, walkways, patios, and stairs.

Preliminary Findings:

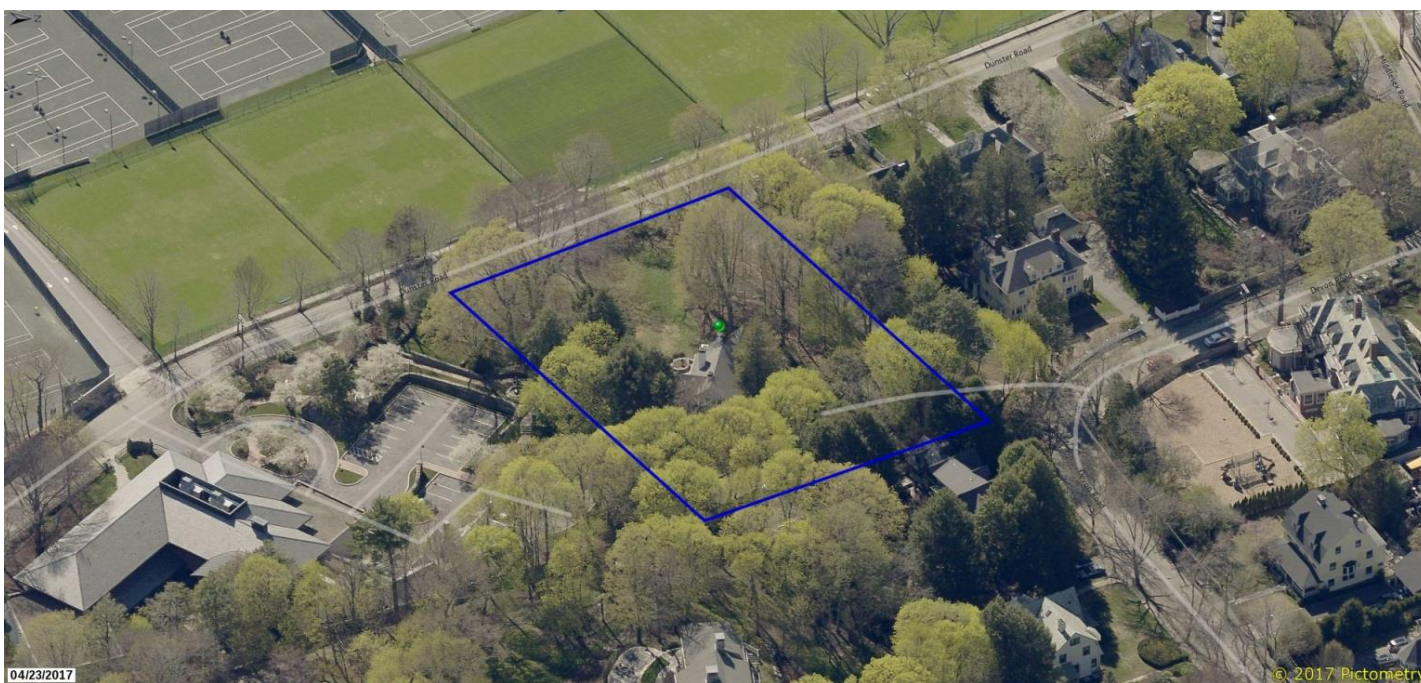
The Commission should ask about the necessity of the high number of proposed Vision 3 rear mount MR16 flood lights (23), specifically the three proposed by the tree in front of Dunster Road, as well as the two by the fence next to the driveway which are located directly next to the two Hunza spike spot lights. The Hunza twig lights, the Auroralight path lights, and the Hunza euro step lights are located by entrances, steps, the rear patio and walkways and serve a function compatible with exterior lighting that has been approved in local historic districts. The Commission might consider asking if the applicant is proposing to tilt the top of the Hunza twig lights towards the ground in an effort to keep the light directed downwards.



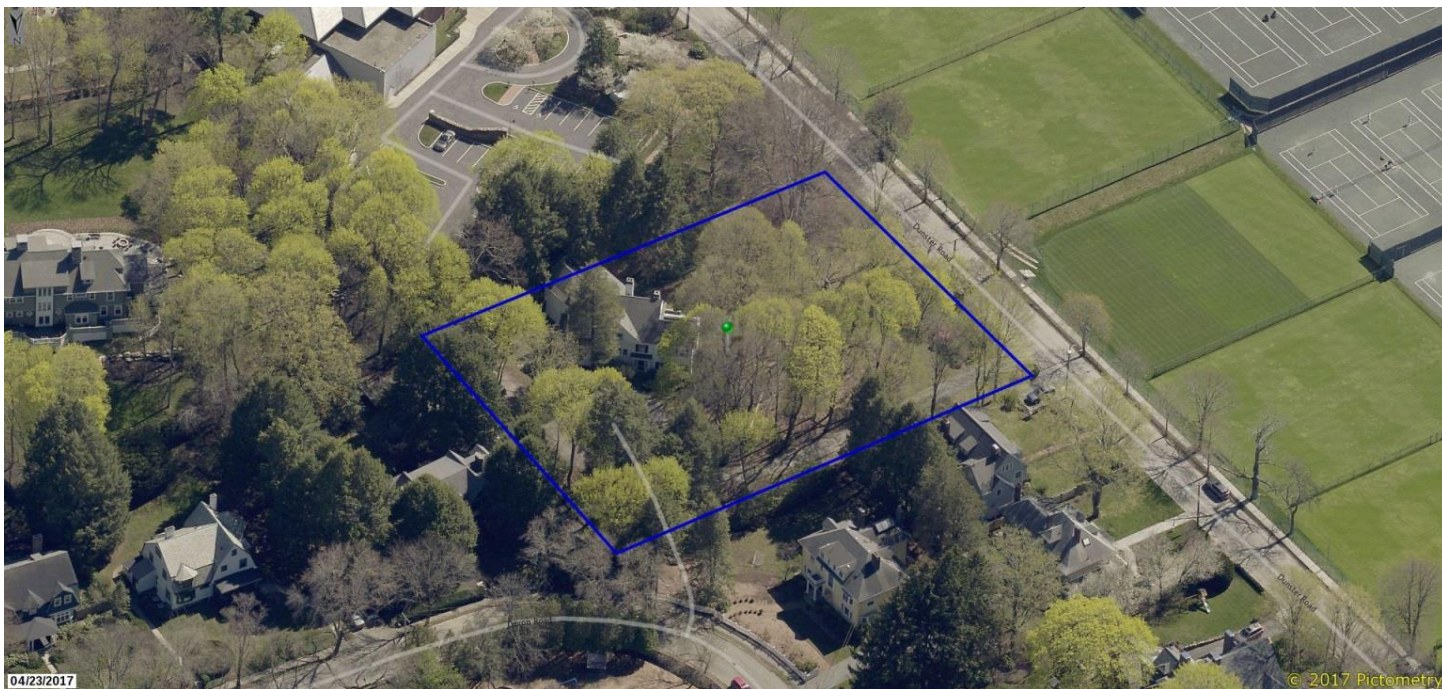
Aerial view of 40 Dunster Road, looking east.



Aerial view of 40 Dunster Road, looking north.



Aerial view of 40 Dunster Road, looking west.



Aerial view of 40 Dunster Road, looking south.



Photograph of the driveway and rear yard taken from Dunster Road



Photograph of the rear yard taken from Dunster Road



Photograph of the tree located in front of Dunster Road to the right side of the side/rear property line



Photograph of the driveway taken from Dunster Road

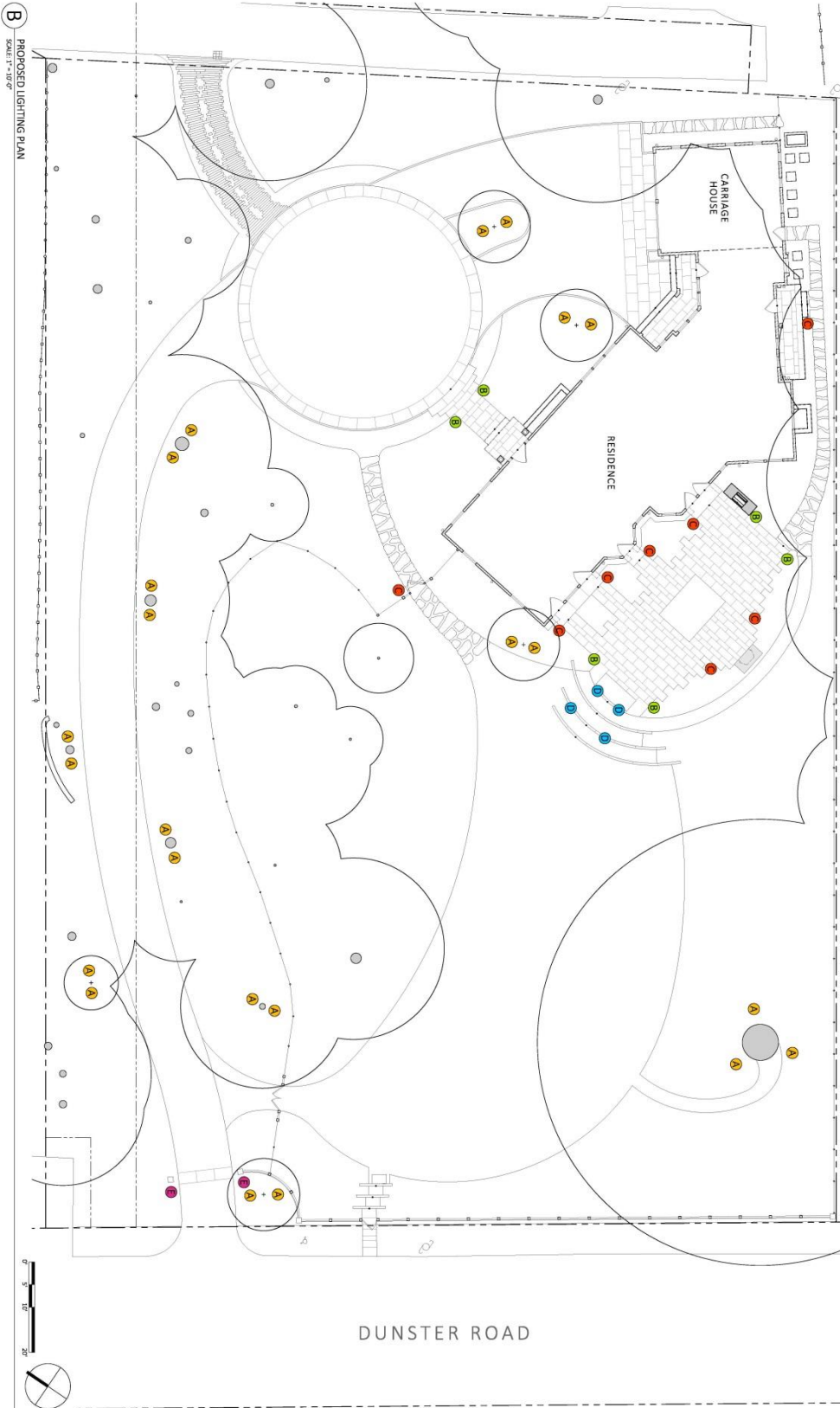


Photograph of the front elevation and entrance taken from Devon Road

SYMBOL	TYPE	MANUFACTURER, MODEL / PRODUCT #
(A)	20' UP LIGHT	VERON'S STEAM MOUNT WITH 8' TUBES - SPARK MOUNT
(B)	6' PATH	SHAW, TUNG LITE
(C)	6' PATH	ALUMINUM, LA LITA
(D)	4' STAIR	HANNA, SPIND STEPS, LITE SOLID FIELD
(E)	2' UP LIGHT	HANNA, SPINE SPOT ADJUSTABLE

NOTES: ALL PROPOSED LAMPING WILL BE 20 WATT OR LESS WITH COOL TEMPERATURE SPECIFIED AT 3000K. MAINTAIN OR ALL FIXTURES IN COVERS OR BUSHES

A LIGHTING LEGEND



B PROPOSED LIGHTING PLAN

SCALE: 1\"/>

BUCKLEY RESIDENCE
40 DUNSTER ROAD
BROOKLINE, MA

DANGORDON
LANDSCAPE ARCHITECTS
WELLESLEY - EDUCATION - DANGORDON.COM

DATE: 11/15/2019
SCALE: AS SHOWN
PROJECT: PROPOSED LIGHTING PLAN
SHEET: LP-1

DANGORDON
LANDSCAPE ARCHITECTS
201 WASHINGTON ST., 215A
BOSTON, MA 02118
TEL: 617.552.1000
WWW.DANGORDON.COM
17 DUNSTER STREET, UNIT 20
BROOKLINE, MA 02445



Job: 40 DUNSTER

Approval:

Type: UPLIGHT

VISION3 LIGHTING

Rear Mount MR16 Flood **MODEL FL1**
12V 50W Max., MR16 Halogen
12V 7.5W, 12/24V 6W, or 12V 10W LED

Specifications

Body

Machined 6061-T6 aluminum, C36000 brass, or 304 stainless steel body with 18-8 stainless steel hardware.

Knuckle

Machined 6061-T6 aluminum, C36000 brass, or 304 stainless steel mounting knuckle with a 1/2" NPS threaded male fitting allows a full range of mounting positions. Double taper design (U.S. Patent #6,966,679) allows fixture to hold position during aiming and ensures a solid lock when tightened. Integral high temperature silicone O-ring prevents leaking between housing and knuckle. Integral LED models have a molded silicone wire seal to prevent water entry at knuckle. Available Rotate and Lock option (U.S. Patent #7,108,405 & #7,458,552) allows for full 360° horizontal aiming and locking.

Cap

Machined cap locks in place with one 18-8 stainless steel set screw, and is sealed to the body with a high temperature silicone O-ring. Round C2 & C4 caps have drain holes for water drainage from top of lens. Square caps feature removable and field interchangeable cutoffs with "flow-through" design for 360° drainage with no light leak. "Flush Lens" cap styles incorporate a stepped lens to reduce the collection of water and debris on the lens.

Finish

TGIC thermo set polyester powder coat paint available in

14 standard colors. On aluminum model, finish is applied over a corrosion resistant, hexavalent chromium free, RoHS compliant coating. Aluminum model available in one additional metal finish: Clear Anodized. Brass model available in three additional metal finishes: Natural, Polished, and Aged. Stainless steel model available in three additional metal finishes: Natural, Polished, and Brushed.

Socket

GY-6.35 porcelain socket with 600V, 250°C, PTFE coated 18 ga leads.

Lens

Tempered, clear lens, secured to cap with a high temperature, UV curing, silicone adhesive.

Lamps

MR16 Halogen: 12V bi-pin up to 50W (maximum allowable wattage depends on model and application. See Certification heading).

Integral LED: 12-24V AC/DC 6W (400lm) or 12V AC/DC 10W (700lm) LED options include integral driver with High/Low switch for 35W/20W (6W) or 50W/35W (10W) halogen equivalent outputs. LED Modules are field replaceable and feature replaceable lenses, an L70 > 60,000 hrs., dynamic transformer recognition, phase dimming (see Transformer and Dimmer Compatibility List), and patented LEDSense® thermal management.

Retrofit MR16 LED: 12V 7.5W (600lm) bi-pin retrofit

Soraa™ MR16 LED lamp with specially engineered heat sink mount to ensure proper heat transfer to body. Note: Retrofit LED will overheat without supplied heat sink mount.

Certification

CSA tested & certified to US and Canadian safety standards for the following applications:

Wet location landscape use (UL1838):

FL1A - 50W Max. MR16 Halogen lamp.

FL1B - 35W Max. MR16 Halogen lamp.

FL1S - 20W Max. MR16 Halogen lamp.

Wet location wall mount use (UL1598):

FL1A - 50W Max. MR16 Halogen lamp.

FL1B - 20W Max. MR16 Halogen lamp.

FL1S - 20W Max. MR16 Halogen lamp.

Wet location ceiling mount use (UL1598):

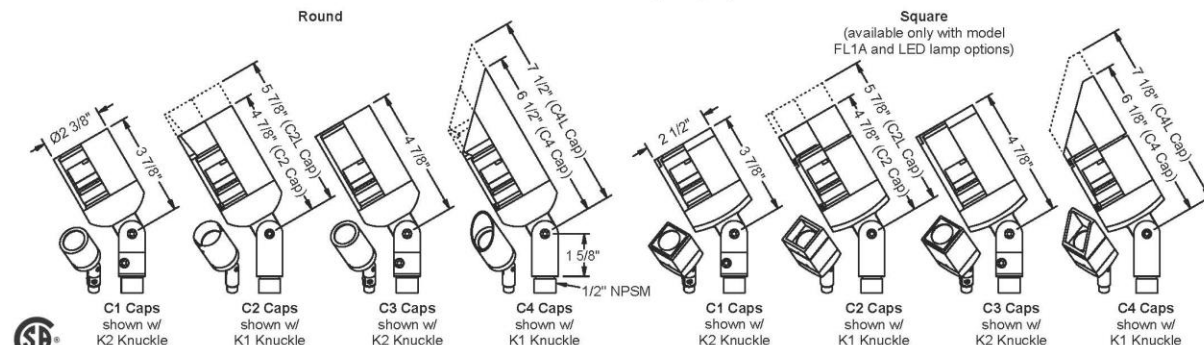
FL1A - 20W Max. MR16 Halogen lamp.

FL1B - 20W Max. MR16 Halogen lamp.

FL1S - 20W Max. MR16 Halogen lamp.

LED options can be used in all models and applications.

All ratings subject to change without notice. See website or contact V3 for most current info.



Ordering Information

FL1B	AGE	RND	C4F	K2	0	0	0	0
Model	Shape	Cap Style	Knuckle	Lamp	Lens Accy ⁶	Filter ⁶	Louver ⁶	
FL1A - Aluminum	RND - Round	Standard Lens:	K1 - Standard ³	Integral LED (3000K, >80 CRI): ^{4,5,6}	0 - None	0 - None	0 - None	
FL1B - Brass ¹	SQ - Square ¹	C1 - Flush	K2 - Rotate & Lock ³	116 - 6W, 12°	L1 - Spread	F1 - Red	H1 - Hex	
FL1S - Stainless ¹		C2 - Regress Lens		117 - 6W, 21°	L2 - Linear	F2 - Blue		
		C3 - Regress Lamp		118 - 6W, 41°	L3 - Softening	F3 - Light Blue		
		C4 - 45° Angled		141 - 10W, 12°		F4 - Green		
		C4L - 45° Angled, Long		142 - 10W, 21°		F5 - Amber		
				143 - 10W, 41°		F6 - Pink		
		Flush Lens:		MR16 Halogen: ^{1,2}		F7 - Mercury Vapor		
		C1F - Flush		0 - None				
		C2F - Regress Lens		01 - ESX, 20W, 12°				
		C2LF - Regress Lens, Long		02 - BAB, 20W, 40°				
		C3F - Regress Lamp		03 - FRB, 35W, 12°				
		C4F - 45° Angled		04 - FRA, 35W, 23°				
		C4LF - 45° Angled, Long		05 - FMW, 35W, 40°				
				09 - EXT, 50W, 13°				
				10 - EXZ, 50W, 26°				
				11 - EXN, 50W, 40°				
				12 - FNW, 50W, 60°				
				Retrofit MR16 LED (3000K, 90 CRI): ^{4,5,7}				
				155 - 7.5W, 10°				
				156 - 7.5W, 25°				
				157 - 7.5W, 36°				

Notes:

- SQ shape available with model FL1A and LED lamps only
- Allowable wattage depends on model and application. See Certification heading above.
- K1 knuckle is protected under U.S. Patent #6,966,679. K2 knuckle is further protected under U.S. Patent #7,108,405 & #7,458,552.
- Only power LED lamp options with approved transformers (contact V3 for transformer compatibility info).
- LED lamp options available in other color temperatures and / or CRI's (contact V3 for info).
- Only two lens accessories can be used with Integral LED.
- Use only approved Retrofit MR16 LED lamps and supplied heat sink mount, otherwise LED may overheat.
- Specifications, certifications, and ordering information are subject to change. Please check website for latest specification sheets.

Example: FL1B - AGE - RND - C3 - K2 - 117 - 0 - F2 - H1

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P.O. Box 607, Fowler, CA 93625

(559) 834-5749

(559) 834-4779 fax

www.vision3lighting.com

revision 6/26/19

B

HUNZA™ PURE OUTDOOR LIGHTING

Twig Lite

PROJECT: **40 DUNSTER**TYPE: **PATH**

SOURCE:

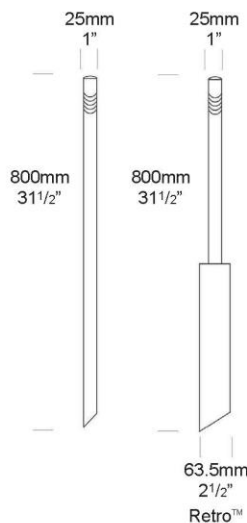
NOTES:

PURELED SPECIFICATIONS



LED Chip	Cree XPG-3 Plug and Play field replaceable LED board
Luminaire Output	120 Lumens @ 700mA (2 watts), delivered from luminaire with unobstructed beam.
Lumens Per Watt	60 Lumens minimum @ 2 watts, delivered from luminaire with unobstructed beam
CRI (3000K)	90+
Colour Temperatures	2700K, 3000K, 4000K
Beam Angles	Asymmetric
Ingress Protection	IP44

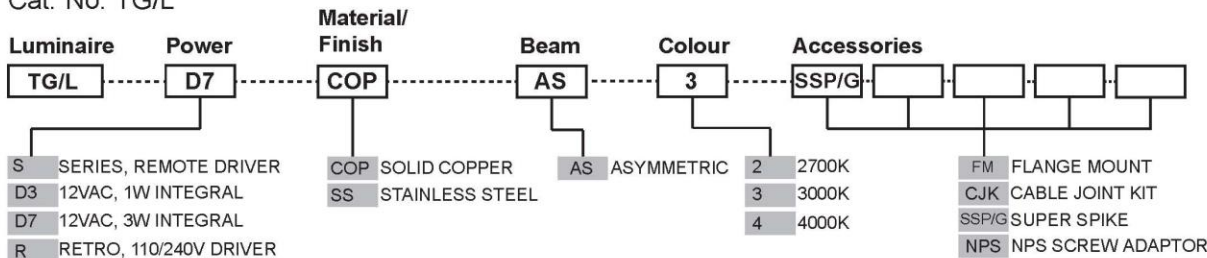
Warranty	Electronics = 5 years Body Cop/SS = 10 years
Standards	AS/NZS 61046 cUL 1838, 2108 CSA C22.2 No.250.7, No.250.0-08 CE



PRODUCT CONFIGURATION

Please fill in appropriate codes into boxes provided

Cat. No. TG/L



SERIES, REMOTE DRIVER REQUIRED:
 Constant current driver
 Individual fixtures require 3vdc @ 700mA maximum
12VAC INTEGRAL DRIVER:
 Hunza Buckbullet driver (included)
 Input: 12VAC, 2watt at 700mA
 Output: 6vdc @ D3=350mA, D7=700mA
110/240VAC RETRO DRIVER:
 Input: 120/240vac, 2 watt total (included)
 Output: 3vdc, 700mA
 0-10 volt dimming (USA - non dimming)

[Click here for halogen specification sheet](#)

OTHER LAMP OPTIONS

TG /H - G4 Halogen 12V Lamp
 TG /GL - G4 LED Retrofit 12V Lamp (lamps vary by market - please refer to supplier for details)

[Click for here Remote Power Supply Guidance Charts](#)

HUNZA™ PURE OUTDOOR LIGHTING

HUNZA FACTORY 130 Felton Mathew Ave
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 Auckland 1072
 New Zealand

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 Fax: +64-9-528 9361
hunza@hunza.co.nz
www.hunzalighting.com

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<http://www.hunzalighting.com/contact.php>
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B

LUMINAIRE CONSTRUCTION

CNC machined from one of the following metals:

Copper

Pole: solid copper 25.4mm (1") rod.
End cap: solid copper 25.4mm (1") rod.

316 Stainless Steel

Pole: 316 stainless steel 25.4mm (1") rod.
End cap: 316 stainless steel 25.4mm (1") rod.

Lens:

22mm (3/4") extra clear low iron flush fit
shatter resistant glass tube.
Lifetime warranty.

Gaskets:

Silicone, iron impregnated 220°C (428°F).

Mounting

The pole 800mm (31½") is directly mounted into the earth or concrete. For extra stability in sand or loose ground use the Super Spike. Flange Mount option is available for hard surfaces.

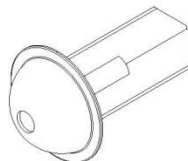
Luminaire Weight:

Low voltage
Cop: 0.800kg (1lb 12oz)
SS: 0.800kg (1lb 12oz)
Retro™
Cop: 1.980kg (4lb 6oz)
SS: 1.980kg (4lb 6oz)

ACCESSORIES



Flange Mount



Super Spike



NPS 1/2"
Screw Mount Adaptor

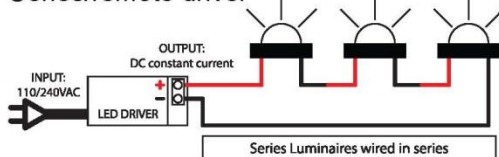
BEAM ANGLES

High efficiency PMMA TIR lenses. Field replaceable

IES files available for download: hunzalighting.com/downloads

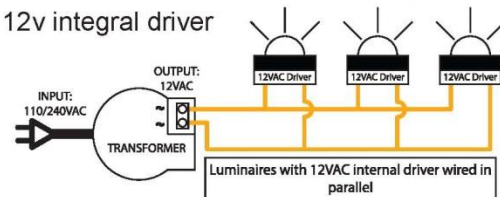
WIRING GUIDE

Series/remote driver



Diagrams are a guide only, wire colours and polarity may change depending on fixture and country

12v integral driver



Specifications may change without notification

Aug 2017

HUNZA™ PURE
OUTDOOR
LIGHTING

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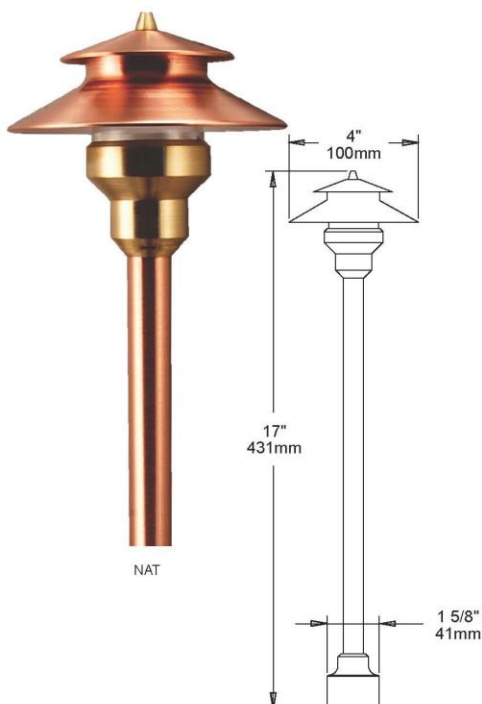


40 DUNSTER

TYPE: **PATH**

CAT. #: **HPL4- 330-G/S-BLP**

HPL4 LA JOLLA



NAT

The compact size of the **HPL4** allows for it to be installed discretely into planters and is ideal for illuminating pathways and intimate garden areas. Use anywhere a less obvious light source is desired. With a timeless design, precision manufacturing and the highest quality materials, our HPL luminaires are the clear choice.

Every HPL series path light gives you a choice of a Thermally Integrated® Field Serviceable LED Module or traditional Halogen lamp. Using Copper Core™ Technology, the HPL module is specifically engineered to transfer heat away from the LED driver/circuit and dissipate throughout the luminaire, ensuring optimal performance, color consistency and long life!

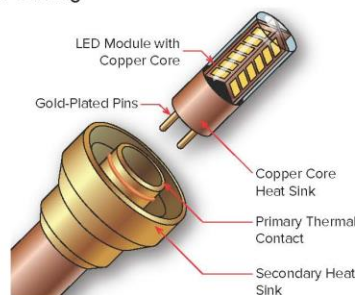
Features include:

- Interchangeable LED Module in 2.5 or 3.5 Watts
- Up to 120 lumens at 3.5 Watts
- 2700 or 3000K (CRI 80 typ.)
- Thermally Integrated, Field Serviceable LED Module
- TRIAC Dimming to <10% typ.
- 12 VAC Electronic or Magnetic Source Compatible
- Solid Copper and Brass Construction
- Patent Pending

LED **hybrid** HALOGEN

12V

COPPER CORE TECHNOLOGY™



ORDERING GUIDE: **HPL4** H (HYBRID) PL (PATH LIGHT) 4 (INCHES)

INDICATES REQUIRED FIELD INDICATES OPTIONAL FIELD

330

Auroralight LED Module

- [227]** 2.5 Watts, 2700K
- [230]** 2.5 Watts, 3000K
- [327]** 3.5 Watts, 2700K
- [330]** 3.5 Watts, 3000K

ACCESSORIES (Select One)

- [180]** 180° Directional Reflector™ *
- [270]** 270° Directional Reflector™ *
- [ID]** Internal Diffuser (Frosted)

* Visible light

G/S

MOUNT

- [1/2]** 1/2" Male Thread
- [G/S]** Ground Stake
- [D/S]** Deluxe Stake 9"
- [T/R-X]** Trident Spike (9" or 12")
- [P/B-S]** Power Box w/ Stake (Inc. 60W 120-12V transformer)
- [P/M]** 4" Pedestal Mount
- [SM3]** 3 1/4" Surface Mount
- [SM2]** 2 1/4" Surface Mount

[X] = Specify Length

NOTE: See Mount Guide for more options

BLP

FINISH

- [NAT]** Natural
- [BLP]** Bronze Living Patina
- [BLP-XD]** BLP Extra Dark
- [NI]** Nickel PVD

ACCESSORIES



MOUNTS



CARLSBAD, CA | PHONE 877 942 1179 | FAX 760 931 2916 | E-MAIL SALES@AURORALIGHT.COM | AURORALIGHT.COM
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HUNZA™ PURE
OUTDOOR
LIGHTING

Euro Step Lite Solid Eyelid

PROJECT: **40 DUNSTER**

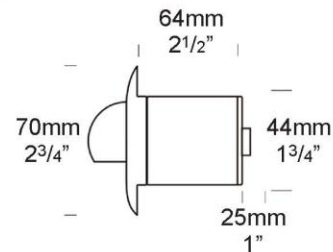
TYPE: **STAIRS**

SOURCE:

NOTES:

PURELED SPECIFICATIONS

LED Chip	Cree XHP-50-2 Plug and Play field replaceable LED board
Luminaire Output	420 Lumens @ 700mA (4 watts), 240 Lumens @ 350mA (2 watts), delivered from luminaire with unobstructed beam.
Lumens Per Watt	105 Lumens @ 4 watts minimum, delivered from luminaire with unobstructed beam
CRI (3000K)	90+
Colour Temperatures	2700K, 3000K, 4000K
Beam Angles	15, 25, 38, 60
Ingress Protection	IP67
Warranty	Electronics = 5 years Body Cop/ SS = 10 years
Standards	AS/NZS 61046 cUL 1838, 2108 CSA C22.2 No. 250.7, No. 250.0-08 CE



PRODUCT CONFIGURATION

Please fill in appropriate codes into boxes provided

Cat. No. ESLS/L

Luminaire	Power	Material/ Finish	Beam	Colour	Accessories
ESLS/L	D7	COP	60	3	LF
S	D3	COP	15	2	LF
D3	D7	SS	25	3	CJK
D7			38	4	HCL
			60		ELCAN
					EDKCAN

SERIES, REMOTE DRIVER REQUIRED:
Constant current driver
Individual fixtures require 6vdc
@ 700mA maximum
12VAC INTEGRAL DRIVER:
Hunza integrated Plug and Play
Driver (included)
Input: 12VAC, 5watt total.
Output: 6vdc @ D3=350mA,
D7=700mA

OTHER LAMP OPTIONS:

ESLS/H - MR11 Halogen 12V Lamp
ESLS/M11L - MR11 LED Retrofit 12V Lamp (lamps vary by market - please refer to supplier for details)

[Click here for halogen specification sheet](#)

[Click here for 240v Remote Power Supply Guidance Charts](#)

[Click here for USA Remote Power Supply Guidance Charts](#)

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content.

D

LUMINAIRE CONSTRUCTION

CNC machined from one of the following metals:

Copper:

Body: 45.5mm (1^{3/4}") copper rod.

Flange: 70mm (3^{1/2}") solid copper rod.

316 Stainless Steel

Body: 45.5mm (1^{3/4}") stainless steel rod.

Flange: 70mm (3^{1/2}") solid 316 stainless steel rod.

Lens:

6mm (1/4") extra clear low iron flush fit shatter resistant glass. Add Hex Cell Louvre accessory for glare control.

Lifetime Warranty.

Gaskets:

Silicone, iron impregnated 220°C (428°F)

Mounting:

The Euro Step Lite is fixed in place using a mounting canister. There are no mounting screws in the flange to spoil aesthetics of the luminaire.

Luminaire Weight:

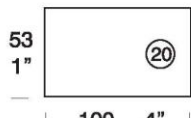
Cop: 0.635kg (1lb 6oz)

SS: 0.585kg (1lb 5oz)

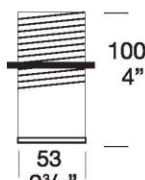
ACCESSORIES



Hex Cell Louvre



Euro Canister

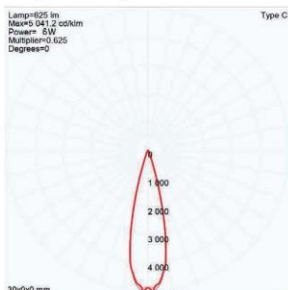


Euro Deck Canister

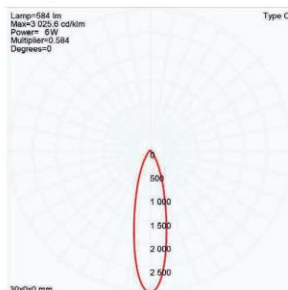
BEAM ANGLES

High efficiency PMMA TIR lenses. Field replaceable

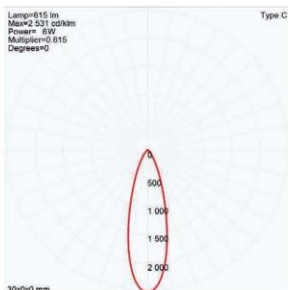
IES files available for download: hunzalighting.com/downloads



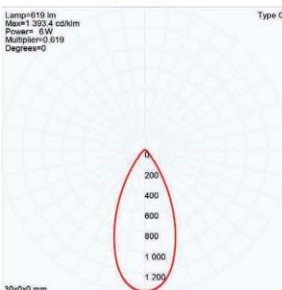
15° FWHM
TIR



25° FWHM
TIR



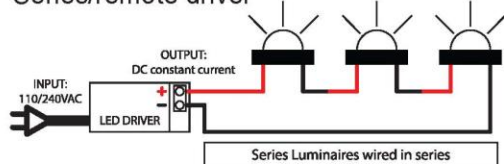
38° FWHM
TIR



60° FWHM
TIR

WIRING GUIDE

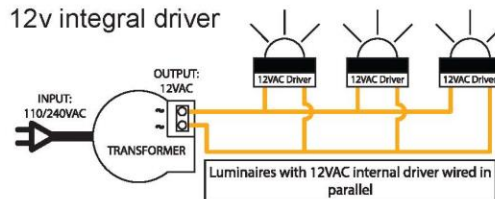
Series/remote driver



Diagrams are a guide only, wire colours and polarity may change depending on fixture and country

Available for download: hunzalighting.com/downloads

12v integral driver



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OUTDOOR
LIGHTING

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Specifications may change without notification

Aug 2017

INTERNATIONAL CONTACTS:
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E

HUNZA™ PURE OUTDOOR LIGHTING

Spike Spot Adjustable

PROJECT: **40 DUNSTER**TYPE: **UPLIGHT**

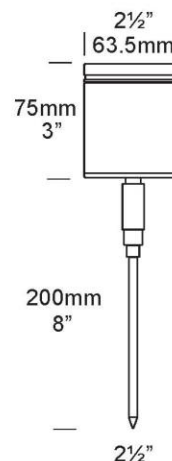
SOURCE:

NOTES:

PURELED SPECIFICATIONS



LED Chip	Cree XHP-50-2 Plug and Play field replaceable LED board
Luminaire Output	600 Lumens @ 1050mA (6 watts), 420 Lumens @ 700mA (4 watts), 240 Lumens @ 350mA (2 watts), delivered from luminaire with unobstructed beam.
Lumens Per Watt	100 Lumens minimum @ 6 watts, delivered from luminaire with unobstructed beam
CRI (3000K)	90+
Colour Temperatures	2700K, 3000K, 4000K
Beam Angles	15, 25, 38, 60
Ingress Protection	IP66/IP67
Warranty	Electronics = 5 years Body Cop/ SS = 10 years Body Aluminium = 5 years
Standards	AS/NZS 61046 cUL 1838, 2108 CSA C22.2 No. 250.7, No. 250.0-08 CE



PRODUCT CONFIGURATION

Please fill in appropriate codes into boxes provided

Cat. No. SS/A/L

Luminaire	Power	Material/ Finish	Beam	Colour	Accessories
SS/A/L	D7	COP	38	3	GG
S SERIES, REMOTE DRIVER	D3 12VAC, 2W INTEGRAL	EBK BLACK	15 15°	2 2700K	HCL HEX CELL LOUVRE
D7 12VAC, 4W INTEGRAL	D10 12VAC, 6W INTEGRAL	EBZ BRONZE	25 25°	3 3000K	SNT SNOOT
		EOGR OLIVE GREEN	38 38°	4 4000K	GG GLARE GUARD
		EWH WHITE	60 60°		LF FROSTED LENS
		EWB WHITE BIRCH			300 300mm SPIKE (12")
		EDG DARK GREY			LKN LOCKING KNUCKLE
		ESTAR SILVER STAR			CJK CABLE JOINT KIT
		ECT CORTEN			
		COP SOLID COPPER			
		SS STAINLESS STEEL			

OTHER LAMP OPTIONS:
 SS/A/H - MR16 Halogen 12V Lamp
 SS/ASL - MR16 LED Retrofit 12V Lamp (lamps vary by market - please refer to supplier for details)
 SS/A/GUH - GU10 120/240V Halogen Lamp (body length increases for all GU10 lamps)
 SS/A/GUSL - GU10 LED Retrofit 120/240V Lamp (lamps vary by market - please refer to supplier for details)

[Click here for halogen specification sheet](#)
[Click here for 240v Remote Power Supply Guidance Charts](#)
[Click here for USA Remote Power Supply Guidance Charts](#)

HUNZA™ PURE OUTDOOR LIGHTING

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40 Dunster Road
Local Historic District Report – November 2019



LUMINAIRE CONSTRUCTION

CNC machined from one of the following metals:

Aluminium:

Body: high corrosion resistant 63.5mm (2 1/2") x 10mm (3/8") aluminium.

End cap: solid aluminium 63.5mm (2 1/2") rod, with chromate substrate and high UV resistant polyester powder coat.

Colours:

Black, Bronze, Silver Star, White, White Birch, Olive Green, Dark Grey, Corten.

Copper:

Body: 63.5mm (2 1/2") x 10mm (3/8").

End cap: solid copper 63.5mm (2 1/2") rod.

316 Stainless Steel:

Body: 63.5mm (2 1/2") x 10mm (3/8").

End cap: solid 316 stainless steel 63.5 (2 1/2") rod.

Knuckles:

Aluminium and Copper luminaires - 360° rotation and 0-90° elevation, solid brass with anti rust spring.

Stainless Steel luminaires - 360° rotation and 0-90° elevation, full stainless steel construction.

Step Lens:

10mm (3/8") Extra clear, low iron, shatter resistant glass.

Lifetime warranty

Gaskets:

Silicone, iron impregnated 220°C (428°F)

Cable:

Water resistant rubber with HUNZA™ Anti-Syphon™ barrier system.

Mounting:

Ground spike 150mm (6") or 300mm (12") inserted directly into the earth.

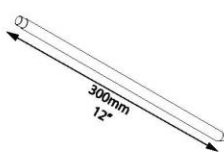
Luminaire Weight:

Alum: 0.800kg (1lb 12oz)

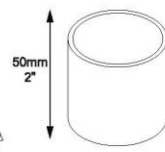
Cop: 1.700kg (3lb 12oz)

SS: 1.600kg (3lb 8oz)

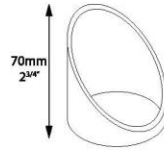
ACCESSORIES



300mm (12") Spike



Snoot



Glare Guard



Hex Cell Louvre

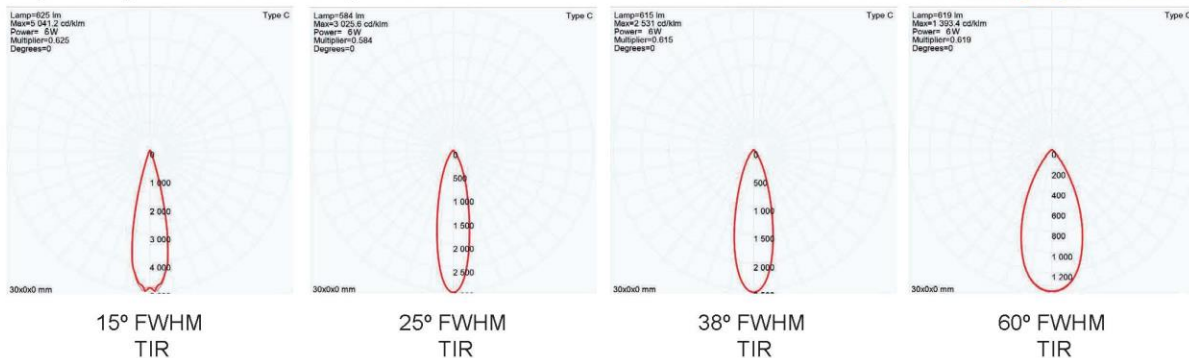


Locking Knuckle

BEAM ANGLES

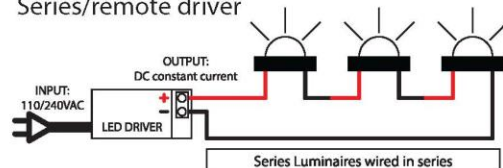
High efficiency PMMA TIR lenses. Field replaceable

IES files available for download: hunzalighting.com/downloads



WIRING GUIDE

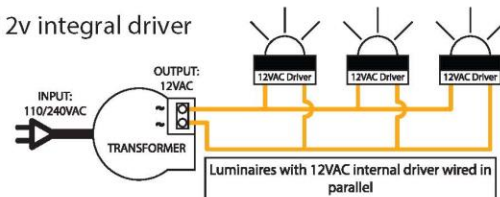
Series/remote driver



Diagrams are a guide only, wire colours and polarity may change depending on fixture and country

Available for download: hunzalighting.com/downloads

12v integral driver



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